**GRADE 6 REGULAR/ GRADE 6 ADVANCED – 1st NINE WEEKS**

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| **TOPIC** | **NEXT GENERATION**  **SUNSHINE STATE STANDARDS** | **ExploreLearning Gizmos** |
| **TOPIC I:** **Natural Disasters and their Effects on Floridians** | **SC.6.E.7.7**  **SC.6.E.7.8**  **SC.6.N.1.2**  **SC.6.N.1.5**  **SC.6.N.2.1**  **SC.6.N.2.2**  **SC.6.N.3.4** | [Hurricane Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=427)  [Weather Maps](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=430) |
| **TOPIC II:** **Thermal Energy Transfer** | **SC.6.E.7.1**  **SC.6.E.7.2**  **SC.6.N.1.1**  **SC.6.N.1.4**  **SC.6.N.3.4** | [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435)  [Greenhouse Effect](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=372)  [Calorimetry Lab](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=460) [Heat Transfer by Conduction](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=388) [Phase Changes](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=557)  [Coastal Winds and Clouds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=438) |
| **TOPIC III:** **Climate and Global Patterns** | **SC.6.E.7.3**  **SC.6.E.7.5**  **SC.6.N.1.1** | [Greenhouse Effect](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=372) [Weather Maps](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=430)  [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435)  [Coastal Winds and Clouds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=438) [Seasons Around the World](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=465) [Seasons: Why do we have them?](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=407) |
| **TOPIC IV:** **Causes of Weather** | **SC.6.E.7.3**  **SC.6.E.7.6**  **SC.6.N.1.1** | [Coastal Winds and Clouds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=438) [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435)  [Relative Humidity](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=425) [Weather Maps](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=430) |
| **TOPIC V:** **Atmosphere and Spheres of the Earth** | **SC.6.E.7.3**  **SC.6.E.7.4**  **SC.6.E.7.5**  **SC.6.E.7.6**  **SC.6.E.7.9**  **SC.6.N.3.1**  **SC.6.N.3.4** | [Coastal Winds and Clouds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=438) [Greenhouse Effect](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=372) [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435)  [Herschel Experiment](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=389) [Relative Humidity](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=425) |

**GRADE 7 REGULAR/ GRADE 7 ADVANCED – 1st NINE WEEKS**

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| **TOPIC** | **NEXT GENERATION**  **SUNSHINE STATE STANDARDS** | **ExploreLearning Gizmos** |
| **TOPIC I:** **Practice of Science and Heat Energy** | **SC.7.P.11.1**  **SC.7.P.11.4**  **SC.7.N.1.1**  **SC.7.N.1.2**  **SC.7.N.1.3**  **SC.7.N.1.4** | [Heat Transfer by Conduction](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=388)  [Temperature and Particle Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=555)  [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435)  [Calorimetry Lab](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=460) [Freezing Point of Salt Water](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=426) [Phase Changes](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=557)  [Conduction and Convection](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=658) |
| **TOPIC II:** **Conservation of Energy and Energy Transformations** | **SC.7.P.11.2**  **SC.7.P.11.3** | [Energy Conversion in a System](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=416) [Energy Conversions](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=651) [Inclined Plane - Sliding Objects](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=27) [Period of a Pendulum](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=391) [Roller Coaster Physics](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=405)  [Potential Energy on Shelves](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=399) |
| **TOPIC III:** **Properties of Waves** | **SC.7.P.10.1**  **SC.7.N.1.3**  **SC.7.N.1.4** | [Herschel Experiment](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=389) [Radiation](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=665)  [Longitudinal Waves](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=610)  [Hearing: Frequency and Volume](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=518)  [Earthquake – Determination of Epicenter](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=371)  [Photoelectric Effect](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=491)  [Doppler Shift](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=363) |
| **TOPIC IV:** **Properties of Light** | **SC.7.P.10.2**  **SC.7.P.10.3**  **SC.7.N.1.3**  **SC.7.N.1.4** | [Basic Prism](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=608)  [Refraction](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=552) [Heat Absorption](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=655) [Herschel Experiment](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=389) [Laser Reflection](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=414) [Photoelectric Effect](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=491) [Ray Tracing (Lenses)](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=588) |

**GRADE 8 REGULAR/ GRADE 8 ADVANCED – 1st NINE WEEKS**

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| **TOPIC** | **NEXT GENERATION**  **SUNSHINE STATE STANDARDS** | **ExploreLearning Gizmos** |
| **TOPIC I:** **Matter** | **SC.8.P.8.2**  **SC.8.P.8.3**  **SC.8.N.1.1**  **SC.8.N.1.2**  **SC.8.N.1.4**  **SC.8.N.1.5**  **SC.8.N.1.6** | [Weight and Mass](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=653)  [Density](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=629)  [Triple Beam Balance](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=385)  [Beam to Moon (Ratios and Proportions)](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=628)  [Gravitational Force](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=411) |
| **TOPIC II:** **Properties and Changes of Matter** | **SC.8.P.8.4**  **SC.8.P.9.2**  **SC.8.P.9.3**  **SC.8.N.1.1**  **SC.8.N.1.2**  **SC.8.N.1.6** | [Temperature and Particle Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=555)  [Freezing Point of Salt Water](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=426)  [Density Experiment: Slice and Dice](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=434) [Density Laboratory](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=362) [Determining Density via Water Displacement](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=400)  [Archimedes' Principle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=603)  [Magnetism](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=631)  [Weight and Mass](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=653)  [Phase Changes](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=557) |
| **TOPIC III:** **Matter- Phase Changes** | **SC.8.P.8.1**  **SC.8.P.8.4**  **SC.8.N.1.1**  **SC.8.N.1.2** | [Phase Changes](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=557)  [Phases of Water](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=661)  [Water Cycle](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=435) |
| **TOPIC IV:** **Atoms** | **SC.8.P.8.1**  **SC.8.P.8.7**  **SC.8.N.1.4**  **SC.8.N.3.2** | [Temperature and Particle Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=555)  [Bohr Model of Hydrogen](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=506) [Bohr Model: Introduction](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=510) [Electron Configuration](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=513)  [Element Builder](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=424) |
| **TOPIC V:** **Atoms and the Periodic Table** | **SC.8.P.8.6**  **SC.8.P.8.7**  **SC.8.N.1.1**  **SC.8.N.1.4**  **SC.8.N.1.6**  **SC.8.N.3.2** | [Electron Configuration](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=513)  [Element Builder](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=424)  [Ionic Bonds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=514)  [Covalent Bonds](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=512) |

**PHYSICAL SCIENCE HONORS – 1st NINE WEEKS**

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| **TOPIC** | **NEXT GENERATION**  **SUNSHINE STATE STANDARDS** | **ExploreLearning Gizmos** |
| **TOPIC I:** **Introduction** | **SC.912.N.1.1**  **SC.912.N.1.2**  **SC.912.N.1.3**  **SC.912.N.1.5**  **SC.912.N.1.6**  **SC.912.N.1.7**  **SC.912.N.2.1**  **SC.912.N.2.2**  **SC.912.N.2.3**  **SC.912.N.2.4**  **SC.912.N.3.1**  **SC.912.N.3.2**  **SC.912.N.3.3**  **SC.912.N.3.4**  **SC.912.N.3.5** | [Mystery Powder Analysis](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=433)  [Measuring Volume](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=1048)  [Density Laboratory](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=362)  [Determining Density via Water Displacement](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=400)  [pH Analysis](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=432)  [Triple Beam Balance](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=385)  [Min/Max Thermometer](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=33) |
| **TOPIC II: Measurement** | **SC.912.N.1.1**  **SC.912.N.1.2**  **SC.912.N.1.3**  **SC.912.N.1.4**  **SC.912.N.2.4**  **SC.912.N.2.5**  **SC.912.N.3.5** | [Triple Beam Balance](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=385)  [Measuring Volume](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=1048)  [Unit Conversions](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=1051)  [Unit Conversions 2 – Scientific Notation and Significant Digits](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=1052)  [Density Laboratory](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=362)  [Graphing Skills](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=630)  [Weight and Mass](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=653)  [Calorimetry Lab](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=460) |
| **TOPIC III: Motion** | **SC.912.P.12.1**  **SC.912.P.12.2** | [Distance-Time Graphs](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=260) [Distance-Time and Velocity-Time Graphs](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=301) [Fan Cart Physics](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=403) [Freefall Laboratory](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=387) [Inclined Plane - Sliding Objects](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=27) [Uniform Circular Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=423)  [Golf Range!](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=26) |
| **TOPIC IV: Forces** | **SC.912.P.10.10**  **SC.912.P.12.2**  **SC.912.P.12.3**  **SC.912.P.12.4** | [Fan Cart Physics](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=403)  [Atwood Machine](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=523) [Freefall Laboratory](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=387) [Golf Range!](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=26) [Gravitational Force](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=411)  [Uniform Circular Motion](http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=423) |